RETURN TO SERVICE PROCEDURE TABLE OF CONTENTS
RETURN TO CD-ROM TABLE OF CONTENTS

Dräger
MEDICAL

Field Service Procedure

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Rev: -
Date: 17 April 2003
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Fabius GS®
Software Version 1.3N Upgrade

RETURN TO SERVICE PROCEDURE TABLE OF CONTENTS
RETURN TO CD-ROM TABLE OF CONTENTS

Fabius GS
Software Version 1.3N Upgrade

INSTALLATION PROCEDURE

CAUTION: This procedure is **only** applicable for machines containing a 1.3n version. Verify the Fabius GS machine currently being serviced meets these requirements prior to performing this Field Service Procedure.

Machines with software 1.1n or 1.20 to 1.3n require additional hardware. Refer to Product Bulletin #149 and contact your DMI Customer Service Representative to obtain the appropriate hardware kit.

NOTE: The screen illustrations contained in this document are for reference only and therefore may or may not reflect the software version being installed.

Installing Send Image (utility) file on laptop. (If applicable)

1. Turn on the PC and insert the software media in the appropriate drive.

2. Minimize all programs and check desktop area for the following icon.

3. If the ‘SendImage’ icon exists, proceed to ‘Updating Send Image’ Section.

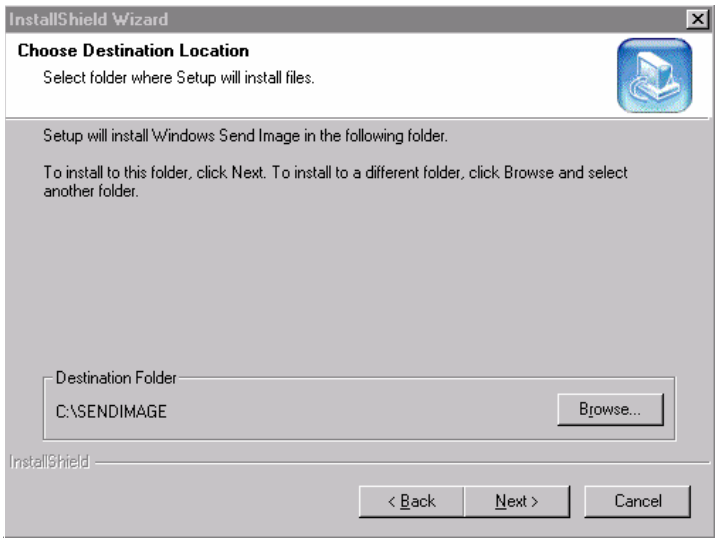
4. Using Windows Explorer double click on the appropriate drive.

5. Double click on the ‘send_image_install’ file.

INSTALLATION PROCEDURE (continued)

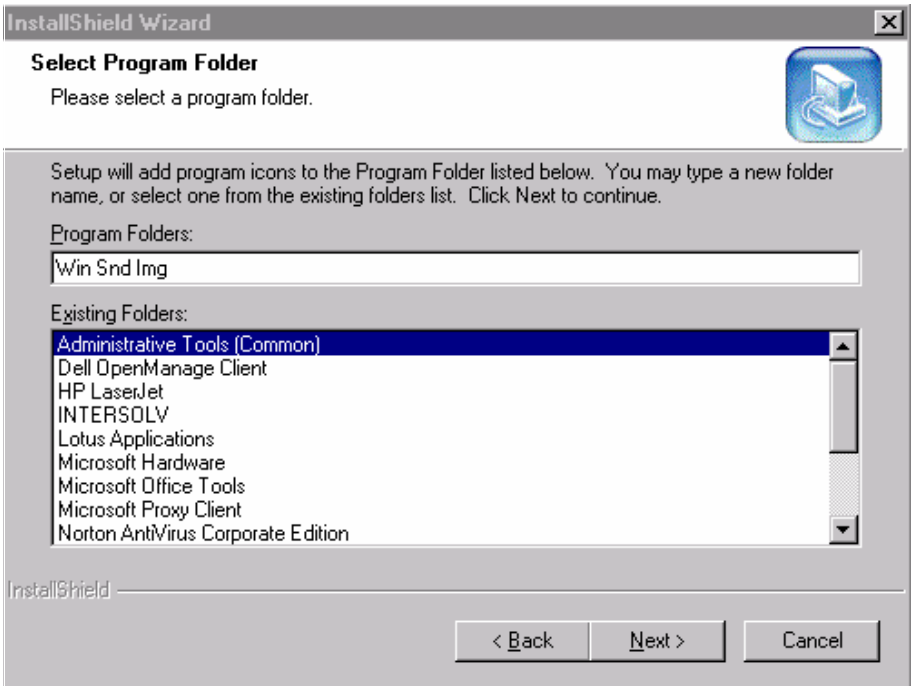
6. Double click on the ‘Setup.exe’ file.

7. Verify the following ‘InstallShield Wizard’ screen appears and the Destination Folder is C:. Choose ‘Next’.

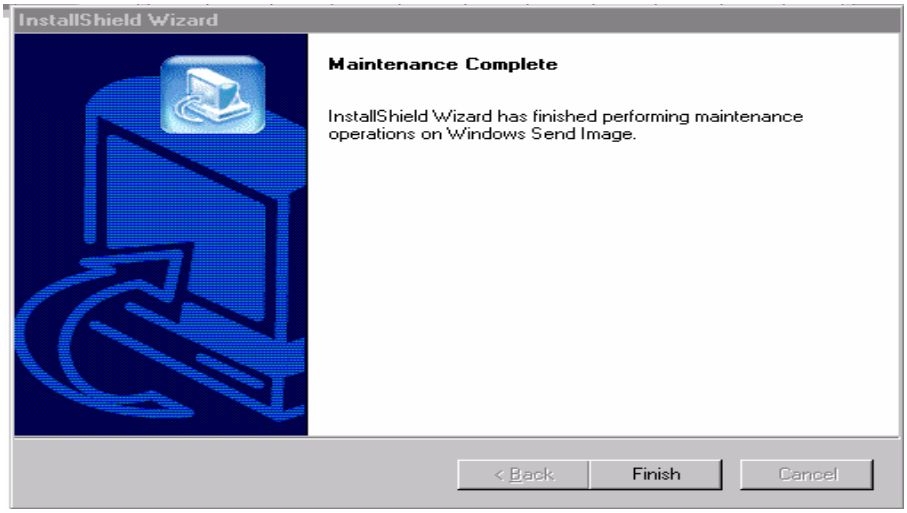

InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Windows Send Image in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\SENDIMAGE
Browse...
InstallShield
< Back
Next >
Cancel

INSTALLATION PROCEDURE (continued)

8. Choose ‘Next’ to the following screen.


InstallShield Wizard
Select Program Folder
Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.
Program Folders:
Win Snd Img
Existing Folders:
Administrative Tools (Common)
Dell OpenManage Client
HP LaserJet
INTERSOLV
Lotus Applications
Microsoft Hardware
Microsoft Office Tools
Microsoft Proxy Client
Norton AntiVirus Corporate Edition
InstallShield
< Back
Next >
Cancel

9. The following screen shall appear. Choose ‘Finish’. Proceed to ‘Performing Software Download’ Section.



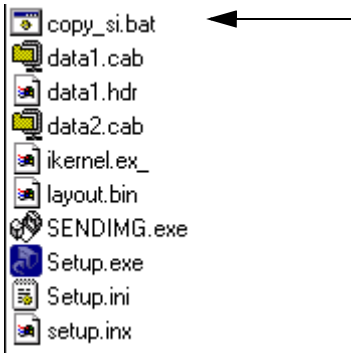
INSTALLATION PROCEDURE (continued)

Updating Send Image (utility) file.

1. Minimize all programs and verify the ‘Send Image’ icon is located on the desktop.

2. Using Windows Explorer, double click on the appropriate drive and open the ‘send_image_install’ file.

3. Double click on the ‘copy_si.bat’ file. This updates your current ‘Send Image’ file to the latest version.

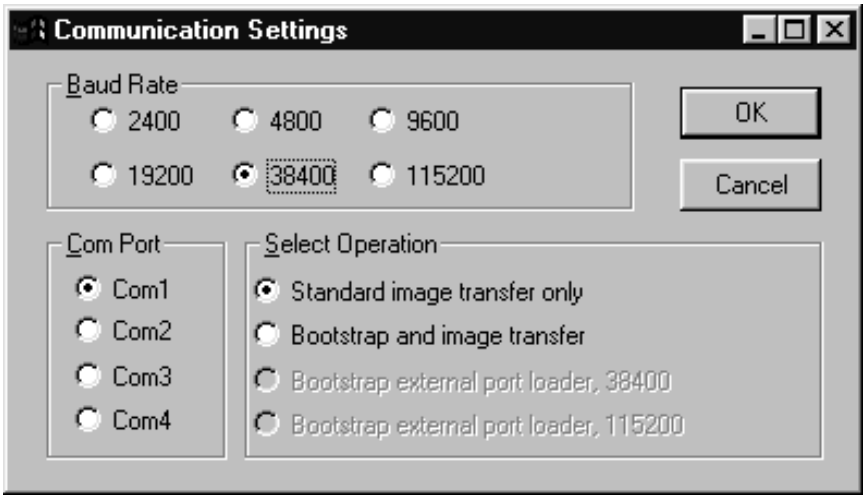


INSTALLATION PROCEDURE (continued)

Performing Software Download.

NOTE: Verify the machine power switch is in the OFF (O) position.

1. From desktop, double-click the new icon named ‘SENDIMG’ or ‘send_img’. The ‘Communications Settings’ screen will appear. Configure the ‘Communications Settings’ as follows:



INSTALLATION PROCEDURE (continued)

2. Press Enter or click OK. Connect the download cable from Com1 on the laptop computer to the serial interface port on the Fabius GS. See Figure 3.

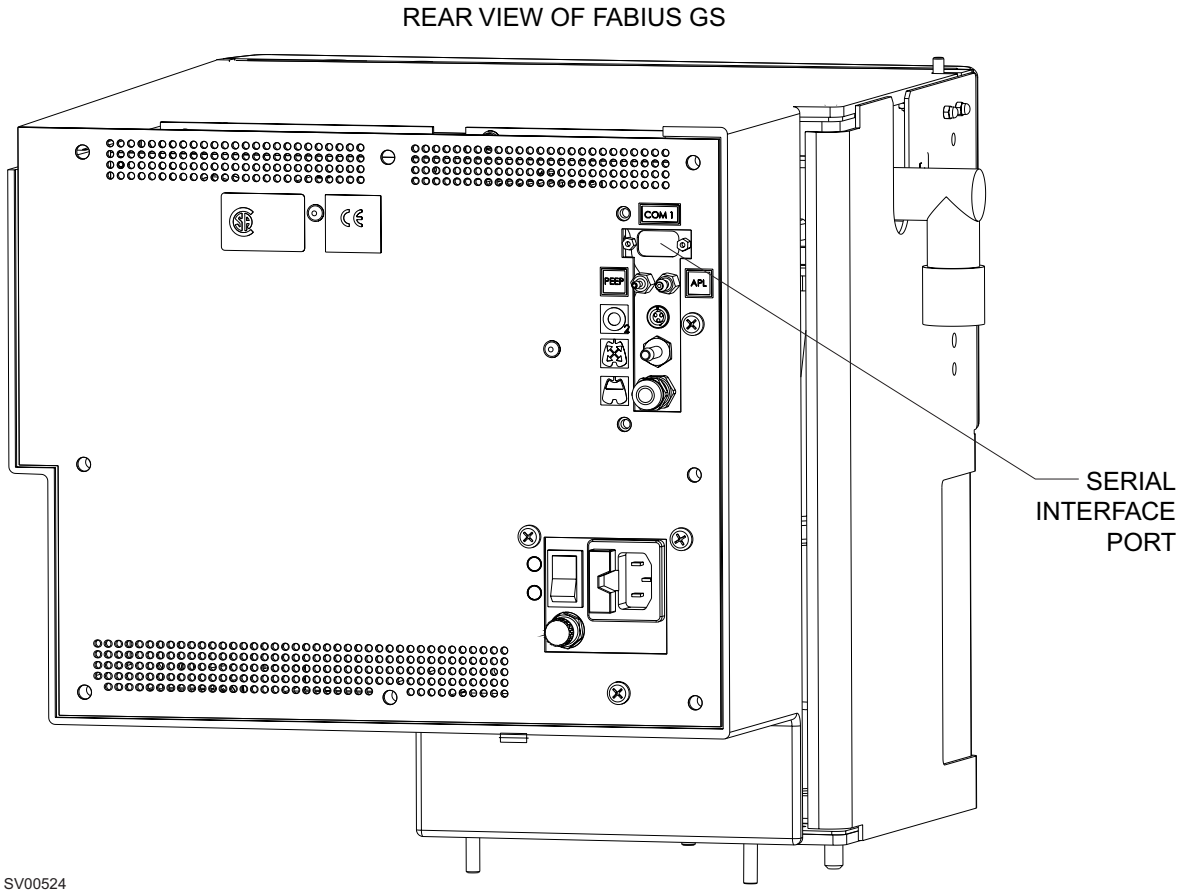
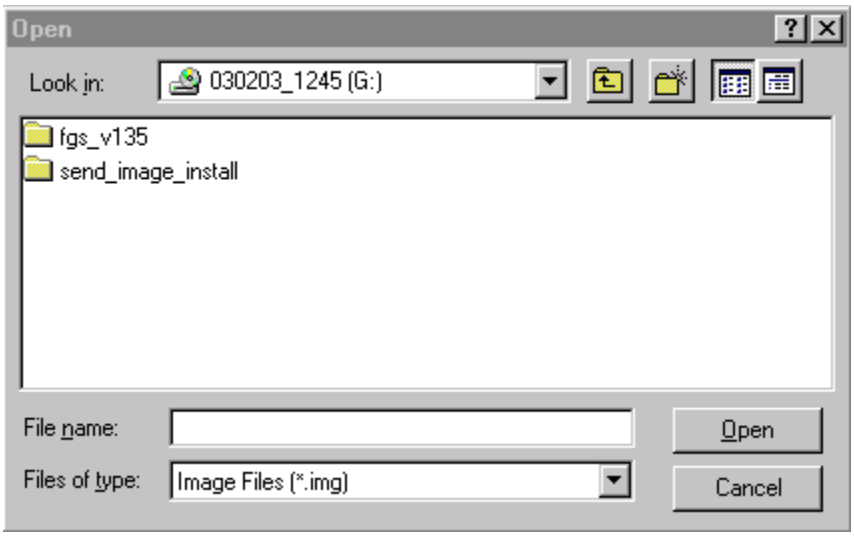


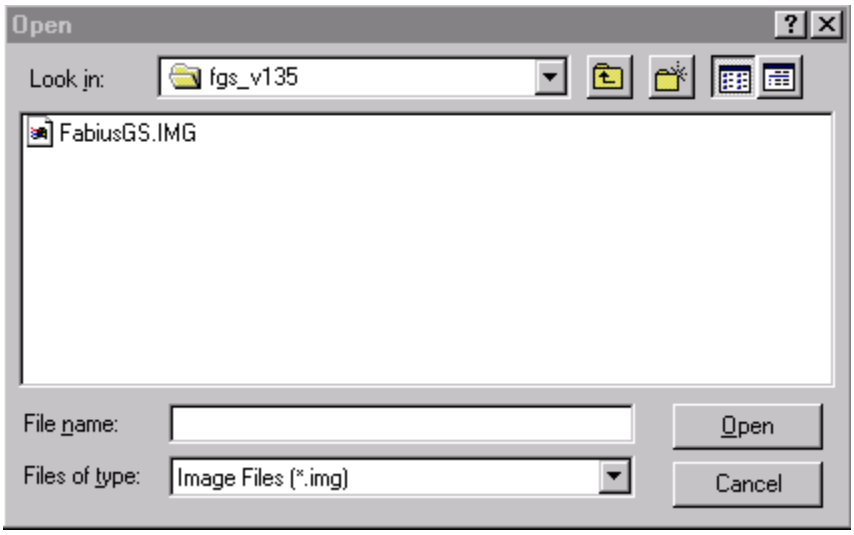
FIGURE 1. Fabius GS Serial Port Location

INSTALLATION PROCEDURE (continued)

3. From the drop-down box, select the CD Drive.

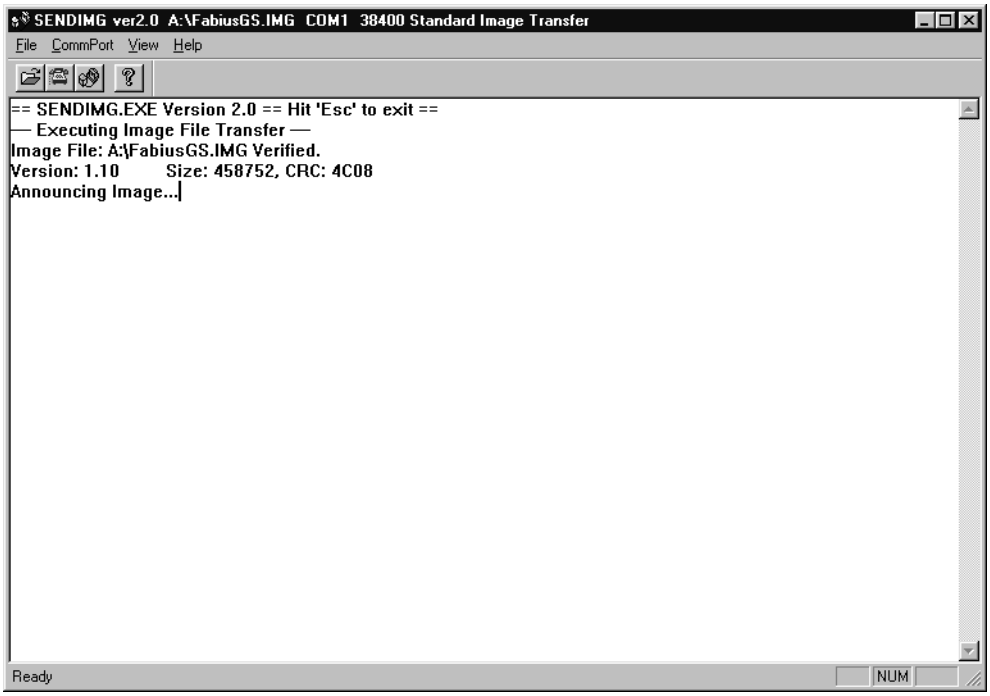


4. Double click the ‘software image’ folder (fgs_vxxx). The ‘Fabius GS.IMG’ is displayed.



INSTALLATION PROCEDURE (continued)

5. Double-click the '.IMG' file or single-click (highlight), then press 'Enter'. The following screen will be displayed:


SENDIMG ver2.0 A:\FabiusGS.IMG COM1 38400 Standard Image Transfer
File CommPort View Help
== SENDIMG.EXE Version 2.0 == Hit 'Esc' to exit ==
— Executing Image File Transfer —
Image File: A:\FabiusGS.IMG Verified.
Version: 1.10 Size: 458752, CRC: 4C08
Announcing Image...
Ready
NUM

6. Set the machine's power switch to ON. The download process will start immediately.

7. As the software is downloading, programming blocks will appear on the machine display. See Figure 4. When the download is complete and successful, the display will appear as shown in Figure 5. If the download is unsuccessful, the display will appear as shown in Figure 6.

INSTALLATION PROCEDURE (continued)

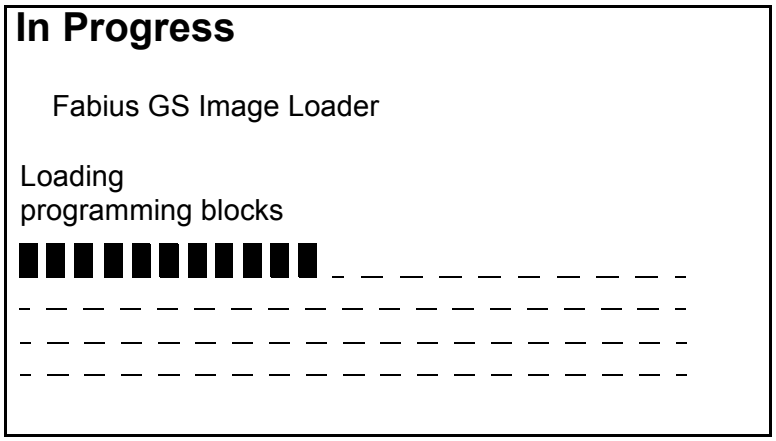


FIGURE 2. Image Loader Screen

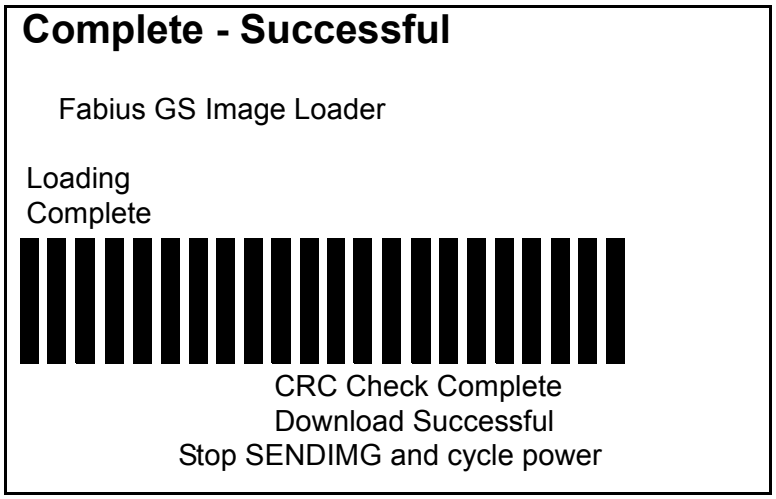


FIGURE 3. Image Loader Successful

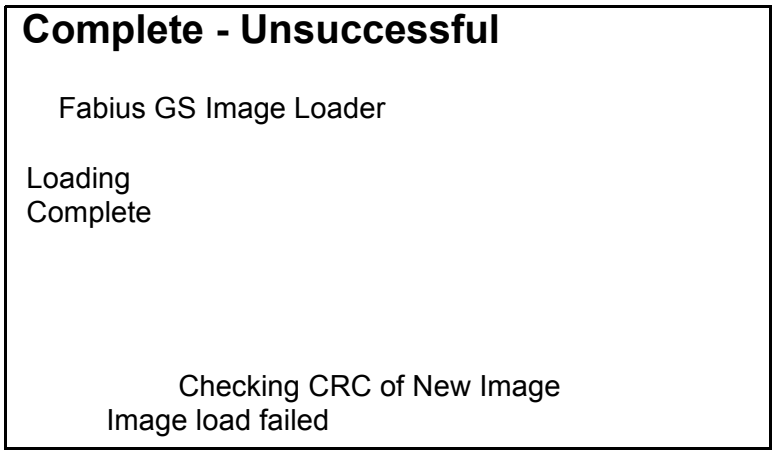


FIGURE 4. Image Loader Unsuccessful

INSTALLATION PROCEDURE (continued)

8. Set the power switch on the Fabius GS to OFF. Close the PC loader screen and power down the PC. Disconnect the interface cable.

9. Switch machine power to ON and verify all self-diagnostics indicate a Pass condition.

NOTE: NVRAM settings will be set when Step 14 is performed.

10. Access the appropriate service screens (see Section 7.5 of the Fabius GS Service Manual) and update the machine serial number, clear service log and reset hours run. The machine serial number is located on the rear of the machine.

11. Perform PMS test Steps 7.6, 7.7, 7.17, 7.18, 7.20 and 7.21 in Section 7 of the Fabius GS Service Manual. Verify the correct market kit settings are entered per original machine configuration or customer requirements. See Table 1.

NOTE: To change the language and pressure measurement units, the “Market Selection” must be changed to “Non-U.S.” (see Section 4 of the Fabius GS Service Manual).

INSTALLATION PROCEDURE (continued)

Table 1: Market Kit Settings

	O2 Whistle	Language	Date Format	Time Format	O2 Position	Alarm Sounds	Pres. Units
USA	Disabled	English	M/D/Y	12 Hour	Right	Drager	cmH2O
UK/Ireland	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
France	Enabled	French	D/M/Y	24 Hour	Left	EN740	mbar
Germany	Enabled	German	D/M/Y	24 Hour	Left	EN740	mbar
Spain	Enabled	Spanish	D/M/Y	24 Hour	Left	EN740	mbar
Poland	Enabled	Polish	D/M/Y	24 Hour	Left	EN740	mbar
Italy	Enabled	Italian	D/M/Y	24 Hour	Left	EN740	mbar
Netherlands	Enabled	Dutch	D/M/Y	24 Hour	Left	EN740	mbar
Russia	Enabled	Russian	D/M/Y	24 Hour	Left	EN740	mbar
Sweden	Enabled	Swedish	D/M/Y	24 Hour	Left	EN740	mbar
Romania	Enabled	Romanian	D/M/Y	24 Hour	Left	EN740	mbar
Canada	Enabled	English	M/D/Y	12 Hour	Right	Drager	cmH2O
Egypt	Enabled	English	D/M/Y	24 Hour	Left	EN740	mbar
Mexico	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	mbar
Australia	Enabled	English	D/M/Y	24 Hour	Left	EN740	mbar
Hungary	Enabled	Hungarian	D/M/Y	24 Hour	Left	EN740	mbar
Turkey/Yugoslavia	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Belgium/Luxembourg	Enabled	French	D/M/Y	24 Hour	Left	Drager	mbar
Brazil	Enabled	Portuguese	D/M/Y	24 Hour	Right	EN740	mbar
Bulgaria/Finland	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Chile	Enabled	Spanish	D/M/Y	24 Hour	Right	EN740	mbar
Croatia	Enabled	Croation	D/M/Y	24 Hour	Left	EN740	mbar
Cuba	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	mbar
Czech Republic	Enabled	Czech	D/M/Y	24 Hour	Left	EN740	mbar
Guam/Somoa	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Jamaica	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Paraguay	Enabled	Spanish	D/M/Y	24 Hour	Right	EN740	mbar
Portugal	Enabled	Portuguese	D/M/Y	24 Hour	Left	EN740	mbar
Slovania	Enabled	Slovak	D/M/Y	24 Hour	Left	EN740	mbar
Switzerland	Enabled	German	D/M/Y	24 Hour	Left	EN740	mbar
Thailand	Enabled	UK English	D/M/Y	24 Hour	Left	EN740	mbar
Uraguay	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	mbar
Vietnam	Enabled	UK English	D/M/Y	24 Hour	Right	EN740	mbar
Argentina	Enabled	Spanish	D/M/Y	24 Hour	Right	Drager	cmH2O

RETURN TO SERVICE PROCEDURE TABLE OF CONTENTS
RETURN TO CD-ROM TABLE OF CONTENTS

RETURN TO SERVICE PROCEDURE TABLE OF CONTENTS
RETURN TO CD-ROM TABLE OF CONTENTS

RETURN TO SERVICE PROCEDURE TABLE OF CONTENTS
RETURN TO CD-ROM TABLE OF CONTENTS

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